

# STIC Search Report

## STIC Database Tracking Number: 151592

TO: James Dudek Location: JEF-4A55

**Art Unit: 2871** 

Tuesday, April 26, 2005

Case Serial Number: 09/447900

From: Darcy Bates Location: EIC 2800

**JEF-4B68** 

Phone: 571-272-2540

darcy.bates@uspto.gov

## Search Notes

Re: 90/006,594 US 5,637,930

Attached are search results.

The only litigation found was the US patent interference # 104,372.

If more searching or explanation is needed, please let me know.

Thanks, Darcy Bates



SEARCH REQUEST FOR Rev. 3/15/2004 This is an experime	RM Scientific and T	echnical Informations or comments to Jeff H	On Center - EIC2800 arrison, JEF-4B68, 272-2511.
Date 4/21/55 Serial #	•		
Your Name James Duc	Jek '	Exami	ner # <u>71801</u>
AU 2871 Phon	e_571-272-27	90 Room 4	455
In what format would you like you	r results? Paper is the def	ault. PAPER	DISK EMAIL
if submitting more than one sea	roh, please prioritize in	order of need.	
The EIO searcher normally will with a searcher for an interactive	contact you before begin to search, please notify o	nning a prior art searchers.	h. If you would like to alt
Where have you searched so Circle: USPT D	WPI EPO Abs	JPO Abs	IBM TDB
Other:	ound so far? Please att		
What types of references won Primary Refs No Secondary Refs Fo Teaching Refs			
What is the topic, such as the desired <u>focus</u> of this search? registry numbers, definitions, topic. Please attach a copy of the search across topic.	Please include the co structures, strategies, f the abstract and pertin	ncepts, synonyms, k and anything else th nent claims.	eywords, acronyms, at helps to describe the
Staff Use Only  Searcher:  Searcher Phone:  Searcher Location: STIC-EIC2800, JEF-4B68  Date Searcher Picked Up:  Date Completed:  Searcher Prep/Rev Time:	Type of Search  Structure (#)  Bibliographic  Litigation  Fulltext  Patent Family  Other	Vendors  STN	

Time: \_\_\_\_\_\_

PALM INTRANET

Day: Monday Date: 4/25/2005 Time: 11:49:56

### **Application Number Information**

Application Number: 09/447900 Assignments

Filing or 371(c) Date: 11/15/1999

Effective Date: 11/15/1999

Application Received: 11/15/1999

Patent Number: Issue Date: 00/00/0000

DISPLAYS

Date of Abandonment: 00/00/0000

Attorney Docket Number: 93SC024RE

Status: 30 /DOCKETED NEW CASE - READY FOR EXAMINATION

Confirmation Number: 4426

Examiner Number: 71801 / DUDEK, JAMES IFW IMAGE

Group Art Unit: 2871

Class/Subclass: 349/117.000

Lost Case: NO

Interference Number: Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 03/15/2000

Oral Hearing: NO Title of Invention: MONOLITHIC OPTICAL COMPENSATION DEVICE FOR IMPROVED VIEWING ANGLE IN LIQUID CRYSTAL

Location Date Charge to Name Employee Name Charge to Loc Location PALM Location Bar Code Appln Info Contents Petition Info Atty/Agent Info Continuity Data Foreign Data Inventors Address Search Another: Application# Search or Patent# [ Search or PG PUBS# PCT / | Search Attorney Docket # Bar Code # Search

To go back use Back button on your browser toolbar.

## Continuity Information for 09/447900

Day: Monday Date: 4/25/2005 Time: 11:50:08

**Parent Data** 

09447900

is a reissue of <u>08313532</u>

Which is a continuation in part of 08223251

**Child Data** 

No Child Data

Applalmo		Atty/Agent/Info	Continuity Data	Foreign Data	Inventora	Address	Pees	Postlife	Pri GrantPub
Search A	nother: Application#	Search	or Patent	# Se	arch				
	PCT //	Search)	or PG PUBS	# [	Search				
	Attorney Docket #		Search						
	Bar Code #	Sea	<b>ich</b> -			•			

To go back use Back button on your browser toolbar.

## PALM INTRANET

Day : Monday Date: 4/25/2005 Time: 11:50:52

### **Application Number Information**

Application Number: 08/313532 Assignments

Filing or 371(c) Date: 09/30/1994 Effective Date: 09/30/1994 Application Received: 09/30/1994

Patent Number: <u>5612801</u> Issue Date: 03/18/1997

Date of Abandonment: 00/00/0000

Attorney Docket Number: 94CR110GGW

Status: 150 /PATENTED CASE

Examiner Number: 71801 / DUDEK, JAMES

Group Art Unit: 2871

Class/Subclass: 359/073.000

Lost Case: NO

Interference Number: Unmatched Petition: NO <u>L&R Code</u>: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 03/07/1997

Confirmation Number: 2048 Oral Hearing: NO

Title of Invention: MONOLITHIC OPTICAL COMPENSATION DEVICE FOR IMPROVED VIEWING ANGLE IN LIQUID CRYSTAL

DISPLAYS

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location			
08313532	28X1	05/01/2004	No Charge to Location	DUDEK, JAMES	INVENTORY,TWENTY7	JEF/04/A 55			
Appln Info Contents Petition Info Atty/Agent Info Continuity Data Inventors Address Fees Post Info Recognition									
Search An	other: Applicat	tion#	Search or Patent#	Search					
	PCT /	/ Search	or PG PUBS#	Search					
Attorney Docket # Search									
Bar Code # Search									

To go back use Back button on your browser toolbar.

## Continuity Information for 08/313532

Day: Monday Date: 4/25/2005 Time: 11:51:04

Parent Data

08313532

is a continuation in part of 08223251

**Child Data** 

 $\underline{09447900}$  is a reissue of  $\underline{08313532}$ 

PCT/US95/124	75 is a continuation of <u>083</u>	13532							
Applininio (	Contents   Petition Info: Att	y/Agentilifo Co	ntinuity Data	Foreign Data	Inventors	Address	(Fees	িজ্ঞানিত	Pro Grant Pub
Search Ano	ther: Application# [	Search	or Patent#	Sec	arch .				
	PCT //	Search 0	r PG PUBS	# []	Search				
	Attorney Docket # [		Search						
	Bar Code #	Search	1						

To go back use Back button on your browser toolbar.

## PALM INTRANET

Day : Monday Date: 4/25/2005 Time: 11:51:12

## **Application Number Information**

Application Number: 08/223251 Assignments

Filing or 371(c) Date: 04/04/1994 Effective Date: 04/04/1994 Application Received: 04/04/1994

Patent Number: <u>5504603</u> Issue Date: <u>04/02/1996</u>

Date of Abandonment: 00/00/0000 Attorney Docket Number: 92SC088 Status: 150 /PATENTED CASE

Confirmation Number: 6785

Examiner Number: 71801 / DUDEK, JAMES

Group Art Unit: 2515 Class/Subclass: 359/073.000

Lost Case: NO
Interference Number:
Unmatched Petition: NO
L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 03/22/1996

Title of Invention: OPTICAL COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE IN LIQUID CRYSTAL DISPLAY

Oral Hearing: NO

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location			
08223251	28X1	05/01/2004	No Charge to Location	DUDEK, JAMES	INVENTORY,TWENTY7	JEF/04/A 55			
Appln Info Contents Petition Info Atty/Agent Info Continuity Data Foreign Data Inventors Address Fees Post Info Pre Grant Pub-									
Search An	other: Applica	tion#	Search or Patent#	Search					
	PCT/	/ Searc	or PG PUBS#	Search					
Attorney Docket # Search									
Bar Code # Search									

To go back use Back button on your browser toolbar.

## Continuity Information for 08/223251

Day : Monday Date: 4/25/2005 Time: 11:51:23

## Parent Data

No Parent Data

### **Child Data**

08313476 is a continuation in part of 08223251

08313510 is a continuation in part of 08223251

08313531 is a continuation in part of 08223251

08313532 is a continuation in part of 08223251

08690033 is a continuation of 08313476

08947531 is a continuation of 08313531

09388131 is a division of 08947531

09447900 is a reissue of 08313532

Appiniinfo	Contents	Petition(Info	Atty/Agent(Info	Continuity Data	Foreign Datas	Inventors	Address	Fees	Post Info	Pre Grant P	ub
											_

Search Another: Application# Search or Patent# Search Or PG PUBS # Search Attorney Docket # Search Search

Bar Code # Search

To go back use Back button on your browser toolbar.

## PALM INTRANET

Day : Monday Date: 4/25/2005 Time: 11:51:36

### **Application Number Information**

Application Number: 08/313510 Order This File Assignments Examiner Number: 71884 / MALINOWSKI, WALTER

Filing or 371(c) Date: 09/30/1994

Effective Date: 09/30/1994

Application Received: 09/30/1994

Patent Number: <u>5638197</u> Issue Date: 06/10/1997

Date of Abandonment: 00/00/0000

Attorney Docket Number: 94CR109GGW

Status: 150 /PATENTED CASE

Group Art Unit: 2515

Class/Subclass: 359/073.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 06/02/1997

Confirmation Number: 2024 Oral Hearing: NO

Title of Invention: INORGANIC THIN FILM COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE IN TWISTED

NEMATIC LIQUID CRYSTAL DISPLAYS AND METHOD OF MAKING

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location				
08313510	9200	11/15/2001	No Charge to Location	No Charge to Name	FOS UPDATE					
Appln Info	Contents   Petition in	io   Aliy/Agentinio	ConfinitiyOata Foreign Oat	a Address Address	Fees Postlinfo P	permird				
Search And	Search Another: Application# Search or Patent# Search									
	PCT/[/]	Search	or PG PUBS#	Search						
Attorney Docket # Search										
	Bar Code # 🛚	<u> </u>	earch							

To go back use Back button on your browser toolbar.

## PALM INTRANET Continuity Information for 08/313510

Day : Monday Date: 4/25/2005 Time: 11:51:53

**Parent Data** 08313510

is a continuation in part of <u>08223251</u>

PCT/US95/12588 is a continuation of 08313510 Applin fulfo Contents Petition Info Atty/Agent Info Continuity Data Foreign Data Inventors Address Fees Post Info Pro Grant Publi Search Another: Application# Search or Patent# Search or PG PUBS # Search PCT / Search Attorney Docket # [ Search Bar Code # Search

To go back use Back button on your browser toolbar.

## PALM INTRANET

Day: Monday Date: 4/25/2005 Time: 11:52:07

### **Application Number Information**

Application Number: 08/690033 Order This File Assignments Examiner Number: 71884 / MALINOWSKI, WALTER

Filing or 371(c) Date: 07/31/1996

Effective Date: 07/31/1996

Application Received: 07/31/1996 Patent Number: <u>5619352</u>

Issue Date: 04/08/1997

Date of Abandonment: 00/00/0000

Status: 150 /PATENTED CASE

Attorney Docket Number: 94CR091C/GGW

Confirmation Number: 9449

Group Art Unit: 2515

Class/Subclass: 359/051.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1 Third Level Review: NO

Secrecy Order: NO

Status Date: 03/28/1997

Oral Hearing: NO

Title of Invention: SPLAY/TWIST COMPENSATOR HAVING VARYING TILT AND/OR AZIMUTHAL ANGLES FOR IMPROVED

**GRAY SCALE PERFORMANCE** 

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location			
08690033	9200	05/12/2003	No Charge to Location	No Charge to Name	WASEEM, MOHAMMED				
Appln Info Contents Retition Info Atty/Agent Info Continuity, Data Foreign Data Inventors Address Fees Post Info Re-Grant Rub									
Search Another: Application# or Patent# Search.									
	PCT /	/ Search	or PG PUBS#	Search					
Attorney Docket # Search									
Bar Code # Search									

To go back use Back button on your browser toolbar.

## PALM INTRANET Continuity Information for 08/690033

Day : Monday Date: 4/25/2005 Time: 11:52:20

## **Parent Data**

08690033

is a continuation of 08313476

Which is a continuation in part of 08223251

Child Data

No Child Data

Apple Info Contents Petition Info Atty/Agent Info	Continuity Data	Foreign Data	Inventors	Address	Fees Positifo	ProGentiPub
Search Another: Application#	or Patent	t# Se	<b>ණ</b> රා			
PCT / Search	or PG PUBS	#	Search			
Attorney Docket #	Search	<b>3</b>				
Bar Code # Se	arch					

To go back use Back button on your browser toolbar.

## PALM INTRANET

Day: Monday Date: 4/25/2005 Time: 11:52:28

### Application Number Information

Application Number: 08/947531 Order This File Assignments Examiner Number: 72587 / TON, MINH-TOAN

Filing or 371(c) Date: 07/30/1997

Effective Date: 07/30/1997

Application Received: 07/30/1997

Patent Number: <u>5986734</u>

Issue Date: 11/16/1999

Status: 150 /PATENTED CASE

Date of Abandonment: 00/00/0000 Attorney Docket Number: 94CR107--

Confirmation Number: 6024

Group Art Unit: 2871

Class/Subclass: 349/123.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 11/08/1999

Oral Hearing: NO

Title of Invention: ORGANIC POLYMER O-PLATE COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE IN

TWISTED NEMATIC LIQUID CRYSTAL DISPLAYS

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	to Name Employee Name					
08947531	9200	09/30/2003	No Charge to Location	No Charge to Name	BAIG,ARIF					
Appin Info   Contents   Petition Info   Atty/Agent Info   Continuity Data   Foreign Data   Inventors   Address   Fees   Post Info   Pro-Grant Pub										
Search And	Search Another: Application# or Patent# Search Search									
	PCT/	Search	or PG PUBS#	Search						
Attorney Docket # Search,										
	Bar Code # [		earch							

To go back use Back button on your browser toolbar.

## Continuity Information for 08/947531

Day : Monday Date: 4/25/2005 Time: 11:52:40

Parent Data

08947531

is a continuation of 08313531

Which is a continuation in part of <u>08223251</u>

**Child Data** 

09388131 is	division of 08947531  Contents Petition Info Atty/Agent Info Continuity Data Foreign Data Inventors Address Fees Post Info Pre	e Grant Pub
Search A	other: Application# Search or Patent# Search	
	PCT / Search or PG PUBS # Search	
	Attorney Docket # Search	
	Bar Code # Search Search	

To go back use Back button on your browser toolbar.

## PALM INTRANET

Day : Monday Date: 4/25/2005 Time: 11:52:49

## **Application Number Information**

Application Number: 09/388131 Order This File Assignments Examiner Number: 71884 / MALINOWSKI, WALTER

Filing or 371(c) Date: 09/01/1999

Effective Date: 09/01/1999

Application Received: 09/01/1999

Patent Number: 6320634 Issue Date: 11/20/2001

Date of Abandonment: 00/00/0000

Attorney Docket Number: 71815/424(93

Status: 150 /PATENTED CASE

Group Art Unit: 3624

Class/Subclass: 349/117.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO L&R Code: Secrecy Code:1

Third Level Review: NO Secrecy Order: NO

Status Date: 11/01/2001

Oral Hearing: NO Confirmation Number: 3439

Title of Invention: ORGANIC POLYMER O-PLATE COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE IN

TWISTED NEMATIC LIQUID CRYSTAL DISPLAYS

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location	
09388131	9200	10/02/2003	No Charge to Location	No Charge to Name	KASAH,EMMANUEL		
Appln Info Contents Petition Info Atty/Agent Info Continuity Data Foreign Data Inventors Address Fees Post Info Pre Grant Pub							
Search Another: Application# Search or Patent# Search							
PCT / Search or PG PUBS # Search							
Attorney Docket # Search							
Bar Code # Search							

To go back use Back button on your browser toolbar.

Day : Monday Date: 4/25/2005 Time: 11:53:00

## **PALM INTRANET**Continuity Information for 09/388131

**Parent Data** 

09388131

is a division of <u>08947531</u>

Which is a continuation of <u>08313531</u>

Which is a continuation in part of <u>08223251</u>

**Child Data** 

No Child Data

Application of the continuity Data Foreign Data Inventors Address Fees Post Info Pro Grant Pro Grant Inventors Address Fees Post Info Pro Grant Pr	il(Pub
Search Another: Application# Search or Patent# Search	
PCT / Search or PG PUBS # Search	
Attorney Docket # Search	
Bar Code # Search	

To go back use Back button on your browser toolbar.

LexisNexis CourtLink

**Welcome Darcy Bates!** 

My CourtLink Y Search Dockets & Documents Y Track Y Alert Y Strategic Profiles Y My Account

Search > Patent Search > Searching

Patent Search - Number: 5,612,801

No cases containing this patent number were found.

Return to Search

(Charges for search still apply)

Pricing Priv

**Privacy** 

Master Services Agreement

LexisNexis CourtLink

**Welcome Darcy Bates!** 

My CourtLink Y Search Dockets & Documents Y Track Y Alert Y Strategic Profiles Y My Account

Search > Patent Search > Searching

Patent Search - Number: 5,504,603

No cases containing this patent number were found.

Return to Search

(Charges for search still apply)

**Pricing** 

Privacy

Master Services Agreement

LexisNexis CourtLink

**Welcome Darcy Bates!** 

My CourtLink Search Dockets & Documents Track Alert Strategic Profiles My Account

Search > Patent Search > Searching

Patent Search - Number: 5,638,197

No cases containing this patent number were found.

Return to Search

(Charges for search still apply)

Pricing

**Privacy** 

Master Services Agreement

LexisNexis CourtLink

**Welcome Darcy Bates!** 

My CourtLink Search Dockets & Documents Track Alert Strategic Profiles My Account

Search > Patent Search > Searching

Patent Search - Number: 5,619,352

No cases containing this patent number were found.

Return to Search

(Charges for search still apply)

Pricing

Privacy

Master Services Agreement

Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents i

Terms: patno=5612801 (Edit Search)

313532 (08) 5612801 March 18, 1997

### UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

#### 5612801

## GET 1st DRAWING SHEET OF 12 Access PDF of Official Patent \* Access PDF of Official Patent \*

### Check for Patent Family Report PDF availability \*

\* Note: A transactional charge will be incurred for downloading an Official Patent or Patent Family Report. Your acceptance of this charge occurs in a later step in your session. The transactional charge for downloading is outside of customer subscriptions; it is not included in any flat rate packages.

### Link to Claims Section

March 18, 1997

Monolithic optical compensation device for improved viewing angle in liquid crystal displays

#### **REEXAM-LITIGATE:**

NOTICE OF LITIGATION

NOTICE OF LITIGATION Interference No. 104,372, final judgment adverse to the patentee rendered Nov. 23, 1999, as to claims 1-7. (O.G. Mar. 14, 2000)

REISSUE: Reissue Application filed Nov. 15, 1999 (O.G. Dec. 28,, (O.G. December 28, 1999)

INVENTOR: Winker, Bruce K. - Moorpark, California, United States (US)

**APPL-NO:** 313532 (08)

FILED-DATE: September 30, 1994

**GRANTED-DATE:** March 18, 1997

ASSIGNEE-AT-ISSUE: Rockwell Science Center, Inc., Thousand Oaks, California, United

States (US), 02

**ASSIGNEE-AFTER-ISSUE:** December 5, 1994 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., ROCKWELL INTERNATIONAL CORPORATION PATENT DEPARTMENT M/A 175-100 400 COLLINS ROAD N.E. CEDARD RAPIDS, IOWA 52498, Reel and

Frame Number: 07266/0645

LEGAL-REP: Williams, Gregory G.; Murrah, M. Lee; Montanye, George A.

PUB-TYPE: March 18, 1997 - Utility Patent having no previously published pre-grant

publication (A)

**PUB-COUNTRY:** United States (US)

#### **REL-DATA:**

Continuation-in-part of Ser. No. 08/223251, April 4, 1994, GRANTED 5504603

LexisNexis Total Research System	ient   Preferences   Feedback   Sign Off   1 Help		
My Lexis™ Search Research Tasks Search Adv		pard's <sup>®</sup>	ECLIPSE   History   🕰
ources Guided Search Forms Command Searching			
Legal > Area of Law - By Topic > Patent Law > Pa	tents > U.S. Patents > Utilit	ty Patents 🗓	)
<sup>a</sup> Enter Search Terms		্র <b>ি</b> <sup>©</sup> Search	Connectors
Terms and Connectors    Natural Language		Use conn	ectors to show relationships
patno=5612801	Suggest Terms Search	connector	search terms. (Hover over a r for description. Click a r to add to search.)
		Syntax	Definition
		and	and
		<u>or</u>	or
D 4141 O		<u>w/N</u>	within N words
Restrict by Segment:		<u>not w/N</u> pre /N	not within N words precedes by N words
Select a segment, enter search terms for the segment	nt, then click Add.	w/p	in same paragraph
Select a Segment	not w/p	not in same paragraph	
Note: Segment availability differs between sources. Segme	ents may not be applied	w/seg	in same segment
consistently across sources.			not in same segment
		w/s	in same sentence
Restrict by Date:		not w/s	not in same sentence
No Date Restrictions	and not	and not	
And the second s	Date Formats		View Search Command

My Lexis ™ | Search | Research Tasks | Search Advisor | Get a Document | Shepard's ® Eclipse ™ | History | Delivery Manager | Switch Client | Preferences | Feedback | Sign Off | Help About LexisNexis | Terms and Conditions

WELCOME to QUESTEL.ORBIT- Your Guide to INTELLECTUAL PROPERTY

Query/Command : file pluspat

Selected file: PLUSPAT

Search statement

Query/Command : us5612801/pn

#### \*\* SS 1: Results 1

Search statement

#### Query/Command : prt fu legalall max

1 / 1 PLUSPAT - @OUESTEL-ORBIT - image

US5612801 A 19970318 [US5612801]

(A) Monolithic optical compensation device for improved viewing TI angle in liquid crystal displays

(A) ROCKWELL SCIENCE CENTER INC (US) PA -

Rockwell Science Center, Inc., Thousand Oaks CA [US] PA0 -

IN -(A) WINKER BRUCE K (US)

AP -US31353294 19940930 [1994US-0313532]

C.I.P. of US223251 19940404 [1994US-0223251] FD

Continuation-in-part of: US5504603

PR -US31353294 19940930 [1994US-0313532]

US22325194 19940404 [1994US-0223251]

IC -(A) G02F-001/1335

EC -G02B-005/30R

G02F-001/13363G

G02F-001/13363T

ICO -S02F-001/13363G2

PCL -ORIGINAL (O): 349119000; CROSS-REFERENCE (X): 349117000

DT -Corresponding document

CT -US4516837; US4533214; US4701028; US5184237; US5196953; US5311340; US5337174; US5344916; US5375006; EP0367288; EP0576342; JP5-157913; JP6-174920

Kahn, "The Molecular Physics of Liquid-Crystal Devices, " Physics Today, pp. 66-74, May 1982.

Macleod, "Structure-Related Optical Properties of Thin Films, " J. Vac. Sci. Technol. A, vol. 4, No. 3, pp. 418-422, 1986. (No Month).

Motohiro et al., "Thin Film Retardation Plate by Oblique Deposition, "Appl. Opt., vol. 28, No. 3, pp. 2466-2482, 1989. (No Month).

Emsworth, "Achromatic Retardation Layers Based on Anisotropic Polymer Networks, " Research Disclosure, No. 337, 1992, p. 411. (No Month).

STG -(A) United States patent

A monolithic O-plate optical compensator device, in accordance with the invention, comprises a plurality of thin-film compensation layers which are deposited on a single substrate. As used herein, the term "monolithic" is meant to imply that the O-plate and other thin-film compensator layers are formed by depositing (e.g., via solvent casting or vacuum deposition) one layer on top of another layer; with or without the use of surface  ${\tt modification}$  treatments such as adhesion layers, alignment layers, and the like.

1 / 1 LGST - ©EPO

PN - US5612801 A 19970318 [US5612801]

**AP** - US31353294 19940930 [1994US-0313532]

ACT - 19941205 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: ROCKWELL INTERNATIONAL CORPORATION PATENT DEPARTME;

EFFECTIVE DATE: 19941024

19941205 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: WINKER, BRUCE K.; EFFECTIVE DATE: 19941024

19991228 US/RF-A

REISSUE APPLICATION FILED EFFECTIVE DATE: 19991115

20000314 US/DI-A

ADVERSE DECISION IN INTERFERENCE

EFFECTIVE DATE: 19991123

**UP** - 2003-22

1 / 1 CRXX - @CLAIMS/RRX

**AN** - 2823592

PN - 5,612,801 A 19970318 [US5612801]

PA - Rockwell Science Center Inc

PT - E (Electrical)

ACT - 19991123 ADVERSE DECISION

Issue Date of O.G.: 20000314 Adverse Decision Number: 104372

as to claims 1-7.

19991115 REISSUE REQUESTED Issue Date of O.G.: 19991228

Reissue Request Number: 09/447900

Examination Group responsible for Reissue process: 2872

**UP** - 1999-51

**UACT-** 2000-03-14

Search statement 2

Query/Command : fam us5612801/pn

1 Patent Groups
\*\* SS 2: Results 17

Search statement 3

#### Query/Command : famstate nonstop

```
1 / 17 PLUSPAT - @QUESTEL-ORBIT
PN - CN1118883 A 19960320 [CN1118883]
STG - (A) Unexamined application
       (A) Optical compensator for improved gray scale perfor mance in
       liquid crystal display
PA -
       (A) ROCKWELL INTERNATIONAL CORP (US)
       (A) WINKER BRUCE K (US); GUNNING III WILLIAM J (US); TABER
IN -
       DONALD B (US)
IC -
       (A) G02F-001/133
AP - CN95104573 19950403 [1995CN-0104573]
PR - US22325194 19940404 [1994US-0223251]
2 / 17 PLUSPAT - @QUESTEL-ORBIT
       DE69521548 D1 20010809 [DE69521548]
STG - (D1) Granted EP number in bulletin
OTI - (D1) Optioch: "
      (D1) Optische Kompensation zur verbesserten Graustufenanzeige in
Flüssigkristallanzeigen
PA - (D1) ROCKWELL INTERNAT CORP (US)
       (D1) GUNNING III (US); HALE LEONARD G (US); TABER DONALD B
IN -
       (US); WINKER BRUCE K (US)
IC - (D1) G02B-005/30 G02F-001/1335
PN2 - DE69521548 T2 20020418 [DE69521548]
STG2- (T2) Trans. Of EP patent
OTI2- (T2) Optische Kompensation zur verbesserten Graustufenanzeige in
Flüssigkristallanzeigen
PA2 - (T2) ROCKWELL INTERNAT CORP (US)
IN2 - (T2) GUNNING III (US); HALE LEONARD G (US); TABER DONALD B
       (US); WINKER BRUCE K (US)
      (T2) G02B-005/30 G02F-001/1335
IC2 -
AP - DE69521548 19950404 [1995DE-6021548]
PR -
       US22325194 19940404 [1994US-0223251]
UP -
       2001-32
1 / 2
       LEGALI - ©EPO
PN -
       DE69521548 D1 20010809 [DE69521548] DE69521548 T2 20020418
[DE69521548]
AP - DE69521548 19950404 [1995DE-6021548]
ACTE- 20020801 DE/8364-A [+]
       NO OPPOSITION DURING TERM OF OPPOSITION
UP -
       2003-22
2 / 2
       LEGALI - ©EPO
       EP0676660 A1 19951011 [EP-676660]EP0676660 B1 20010704 [EP-676660]
PN -
AP -
       EP95105034 19950404 [1995EP-0105034]
ACTE-
       19951011 EP/AK-A [+]
       DESIGNATED CONTRACTING STATES:
       DE FR GB NL
       19960207 EP/17P-A [+]
       REQUEST FOR EXAMINATION FILED
```

EFFECTIVE DATE: 19951212

```
19980930 EP/170-A [+]
        FIRST EXAMINATION REPORT
        EFFECTIVE DATE: 19980814
        20010704 EP/AK-A [+]
        DESIGNATED CONTRACTING STATES:
       DE FR GB NL
        20010809 EP/REF-A
       CORRESPONDS TO:
        (DE 69521548 20010809 [DE69521548])
        20011026 EP/ET-A [+]
        FR: TRANSLATION FILED
        20020101 EP/REG-A; GB/IF02 [+]
       GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
        <GB>
       20020626 EP/26N-A [+]
       NO OPPOSITION FILED
UP -
       2003-22
3 / 17 PLUSPAT - @QUESTEL-ORBIT
PN - EP0676660 A1 19951011 [EP-676660]
       (A1) Public. Of applic. With search report
STG -
        (A1) Optical compensator for improved gray scale performance in
       liquid crystal display.
       (A1) Optische Kompensation zur verbesserten Graustufenanzeige in
OTI -
Flüssigkristallanzeigen.
        (A1) Compensation optique pour affichage à niveaux de gris
       amélioré dans un afficheur à cristal liquide.
      (A1) ROCKWELL INTERNATIONAL CORP (US)
PA -
IN - (A1) GUNNING WILLIAM J III (US); HALE LEONARD G (US); TABER
       DONALD B (US); WINKER BRUCE K
TC -
      (A1) G02B-005/30 G02F-001/1335
PN2 - EP0676660 B1 20010704 [EP-676660]
STG2-
      (B1) Patent
       (B1) Optical compensator for improved gray scale performance in
TI2 -
       liquid crystal display
       (B1) Optische Kompensation zur verbesserten Graustufenanzeige in
Flüssigkristallanzeigen
        (B1) Compensation optique pour affichage à niveaux de gris
        amélioré dans un afficheur à cristal liquide
       (B1) ROCKWELL INTERNAT CORP (US)
PA2 -
IN2 - (B1) GUNNING WILLIAM J III (US); HALE LEONARD G (US); TABER
       DONALD B (US); WINKER BRUCE K
                                      (US)
IC2 -
       (B1) G02B-005/30 G02F-001/1335
LA - ENGLISH (ENG)
AP - EP95105034 19950404 [1995EP-0105034]
       US22325194 19940404 [1994US-0223251]
PR -
EC -
       G02F-001/13363G
       G02F-001/13363T
ICO -
       S02F-001/13363G2
DS -
       DE FR GB NL
DT -
       Basic
```

```
1 / 1
       LEGALI - ©EPO
       EP0676660 A1 19951011 [EP-676660]EP0676660 B1 20010704 [EP-676660]
PN -
AP -
       EP95105034 19950404 [1995EP-0105034]
       19951011 EP/AK-A [+]
ACTE-
        DESIGNATED CONTRACTING STATES:
        DE FR GB NL
        19960207 EP/17P-A [+]
        REQUEST FOR EXAMINATION FILED
        EFFECTIVE DATE: 19951212
        19980930 EP/17Q-A [+]
        FIRST EXAMINATION REPORT
        EFFECTIVE DATE: 19980814
        20010704 EP/AK-A [+]
        DESIGNATED CONTRACTING STATES:
        DE FR GB NL
        20010809 EP/REF-A
        CORRESPONDS TO:
        (DE 69521548 20010809 [DE69521548])
        20011026 EP/ET-A [+]
        FR: TRANSLATION FILED
        20020101 EP/REG-A; GB/IF02 [+]
        GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
        <GB>
        20020626 EP/26N-A [+]
       NO OPPOSITION FILED
UP -
       2003-22
4 / 17 PLUSPAT - @QUESTEL-ORBIT
PN - JP10507007 T 19980707 [JP10507007]
      (T) Unexam. Pat. Appl. On foreign appl.
      (T) G02B-005/30 G02F-001/1335 G02F-001/1337
AP - JP51204895T 19950928 [1995JP-0512048]
PR -
       WOUS9512497 19950928 [1995WO-US12497]
       US31353194 19940930 [1994US-0313531]
5 / 17
       PLUSPAT - @QUESTEL-ORBIT - image
PN -
        JP7306406 A 19951121 [JP07306406]
       (A) Doc. Laid open to publ. Inspec.
STG -
       (A) LIQUID CRYSTAL DISPLAY FOR OBSERVATION AT VARIOUS ANGLE WITH
TI -
        RESPECT TO NORMAL AXIS FORMING RIGHT ANGLE WITH DISPLAY
        (A) ROCKWELL INTERNATIONAL CORP
PA -
PA0 -
        (A) ROCKWELL INTERNATL CORP
        (A) BURUUSU KEI UINKAA; UIRIAMU JIEI GANINGU ZA SAADO; DONARUDO
        BII TEIBAA; REONARUDO JII HEIRU
        (A) WINKER BRUCE K; GUNNING III WILLIAM J; TABER DONALD B; HALE
INO -
        LEONARD G
       (A) G02F-001/133 G02F-001/1333 G02F-001/1335 G02F-001/1337
IC -
AP -
        JP7776095 19950403 [1995JP-0077760]
PR -
       US22325194 19940404 [1994US-0223251]
```

```
PLUSPAT - @QUESTEL-ORBIT
6 / 17
PN - KR259762 B1 20000615 [KR-259762]
       (B1) Examined pat. App. (2nd pub.) B5
TI -
       (B1) LCD DEVICE
PA -
      (B1) ROCKWELL INTERNAT CORP (US)
       (B1) GUNNING III WILLIAM J (US); HALE LEONARD G (US); TABER
IN -
       DONALD B (US); WINKER BRUCE K (US)
       (B1) G02F-001/1335
TC -
       KR9507851 19950404 [1995KR-0007851]
AP -
PR -
       US22325194 19940404 [1994US-0223251]
UP -
       2001-08
7 / 17
       PLUSPAT - @QUESTEL-ORBIT
PN -
       TW494256 B 20020711 [TW-494256]
       (B) Patent
STG -
       (B) Optical compensator for improved gray scale performance in
TI -
       liquid crystal display
       (B) ROCKWELL INTERNAT CORP (US)
PA -
       (B) HALE LEONARD G (US); TABER DONALD B (US); WINKER BRUCE K
       (US); GUINNING WILLIAM J III (US)
       (B) G02F-001/13 G02F-001/133 G02F-001/1347
IC -
       TW84103214 19950401 [1995TW-0103214] US22325194 19940404 [1994US-0223251]
AP -
PR -
       2003-22
1 / 1
       LEGALI - ©EPO
       TW494256 B 20020711 [TW-494256]
PN -
AP -
       TW84103214 19950401 [1995TW-0103214]
       20021105 TW/GD4A-A [+]
ACTE-
       ISSUE OF PATENT CERTIFICATE FOR GRANTED INVENTION PATENT
UP - 2004-28
8 / 17
       PLUSPAT - @QUESTEL-ORBIT
PN -
       US5504603 A 19960402 [US5504603]
STG -
       (A) United States patent
       (A) Optical compensator for improved gray scale performance in
       liquid crystal display
PA -
        (A) ROCKWELL INTERNATIONAL CORP (US)
PA0 -
       Rockwell International Corporation, Seal Beach CA [US]
IN -
       (A) WINKER BRUCE K (US); GUNNING III WILLIAM J (US); TABER
       DONALD B (US); HALE LEONARD G (US)
IC -
       (A) G02F-001/1335
AP -
       US22325194 19940404 [1994US-0223251]
       US22325194 19940404 [1994US-0223251]
PR -
       G02F-001/13363G
       G02F-001/13363T
ICO - S02F-001/13363G2
PCL - ORIGINAL (O) : 349117000
DT - Corresponding document
       PLUSPAT - @QUESTEL-ORBIT - image
PN -
       US5638197 A 19970610 [US5638197]
STG -
       (A) United States patent
TI - (A) Inorganic thin film compensator for improved gray scale
```

STIC EIC 2800 Darcy Bates 272-2540

performance in twisted nematic liquid crystal displays and method

of making (A) ROCKWELL INTERNATIONAL CORP (US) PA -PA0 -Rockwell International Corporation, Seal Beach CA [US] (A) GUNNING III WILLIAM J (US); WINKER BRUCE K (US); TABER DONALD B (US); KOBRIN PAUL H (US); BEEDY JAMES C (US); EBLEN JR JOHN P (US) IC -(A) G02F-001/1335 US31351094 19940930 [1994US-0313510] AP -US31351094 19940930 [1994US-0313510] PR -US22325194 19940404 [1994US-0223251] G02B-005/30R EC -G02F-001/13363G G02F-001/13363T ICO -M23C-014/22D2 S02F-001/13363G2 PCL -ORIGINAL (O): 349096000; CROSS-REFERENCE (X): 349117000 DT - Corresponding document 1 / 1 LEGALI - ©EPO US5638197 A 19970610 [US5638197] AP -US31351094 19940930 [1994US-0313510] ACTE-19941205 US/AS02-A ASSIGNMENT OF ASSIGNOR'S INTEREST OWNER: ROCKWELL INTERNATIONAL CORPORATION PATENT DEPARTME; EFFECTIVE DATE: 19941021 19941205 US/AS02-A ASSIGNMENT OF ASSIGNOR'S INTEREST OWNER: GUNNING, WILLIAM J., III; EFFECTIVE DATE: 19941021 19941205 US/AS02-A ASSIGNMENT OF ASSIGNOR'S INTEREST OWNER: WINKER, BRUCE K.; EFFECTIVE DATE: 19941024 19941205 US/AS02-A ASSIGNMENT OF ASSIGNOR'S INTEREST OWNER: TABER, DONALD B.; EFFECTIVE DATE: 19941021 19941205 US/AS02-A ASSIGNMENT OF ASSIGNOR'S INTEREST OWNER: KOBRIN, PAUL H.; EFFECTIVE DATE: 19941021 tip -2003-22 10 / 17 PLUSPAT - @QUESTEL-ORBIT - image PN - US5612801 A 19970318 [US5612801] (A) United States patent STG -(A) Monolithic optical compensation device for improved viewing TI angle in liquid crystal displays (A) ROCKWELL SCIENCE CENTER INC (US) PA -Rockwell Science Center, Inc., Thousand Oaks CA [US] PA0 -(A) WINKER BRUCE K (US) IN -IC -(A) G02F-001/1335 AP -US31353294 19940930 [1994US-0313532] US31353294 19940930 [1994US-0313532] US22325194 19940404 [1994US-0223251] PR -EC -G02B-005/30R G02F-001/13363G G02F-001/13363T

ICO - S02F-001/13363G2

```
ORIGINAL (O): 349119000; CROSS-REFERENCE (X): 349117000
DT -
       Corresponding document
1 / 1
       LEGALI - ©EPO
PN -
       US5612801 A 19970318 [US5612801]
AP -
       US31353294 19940930 [1994US-0313532]
ACTE-
       19941205 US/AS02-A
        ASSIGNMENT OF ASSIGNOR'S INTEREST
        OWNER: ROCKWELL INTERNATIONAL CORPORATION PATENT DEPARTME;
        EFFECTIVE DATE: 19941024
        19941205 US/AS02-A
        ASSIGNMENT OF ASSIGNOR'S INTEREST
        OWNER: WINKER, BRUCE K.; EFFECTIVE DATE: 19941024
        19991228 US/RF-A
        REISSUE APPLICATION FILED
        EFFECTIVE DATE: 19991115
        20000314 US/DI-A
       ADVERSE DECISION IN INTERFERENCE
       EFFECTIVE DATE: 19991123
       2003-22
IIP -
11 / 17 PLUSPAT - @QUESTEL-ORBIT
       US6320634 B1 20011120 [US6320634]
       (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
TI -
       (B1) Organic polymer O-plate compensator for improved gray scale
        performance in twisted nematic liquid crystal displays
PA -
       (B1) ROCKWELL INTERNAT CORP (US)
PAO -
       Rockwell International Corporation, Cedar Rapids IA [US]
       (B1) CHUNG YOUNG J (US); LI ZILI (US); RYANG HONG-SON (US);
IN -
       WINKER BRUCE K (US); ROSENBLATT CHARLES (US); WARREN JR LESLIE F
IC -
        (B1) G02F-001/1335
       US38813199 19990901 [1999US-0388131]
ΑP
       US38813199 19990901 [1999US-0388131]
PR -
       US94753197 19970730 [1997US-0947531]
       US31353194 19940930 [1994US-0313531]
       US22325194 19940404 [1994US-0223251]
       G02B-005/30L
       G02F-001/13363G
       G02F-001/13363T
       S02F-001/13363G
ICO -
       S02F-001/13363G2
       ORIGINAL (O): 349117000; CROSS-REFERENCE (X): 349118000
PCL -
349119000
DT -
       Corresponding document
UP -
       2001-48
12 / 17 PLUSPAT - @QUESTEL-ORBIT - image
       US5619352 A 19970408 [US5619352]
STG -
        (A) United States patent
TI -
        (A) LCD splay/twist compensator having varying tilt and /or
        azimuthal angles for improved gray scale performance
PA -
       (A) ROCKWELL INTERNATIONAL CORP (US)
       Rockwell International Corporation, Seal Beach CA [US]
```

```
(A) KOCH GENE C (US); WINKER BRUCE K (US); GUNNING III WILLIAM J
TN -
        (US)
        (A) G02F-001/13 G02F-001/1333 G02F-001/1335
IC -
AP -
        US69003396 19960731 [1996US-0690033]
PR -
       US69003396 19960731 [1996US-0690033]
        US31347694 19940930 [1994US-0313476]
        US22325194 19940404 [1994US-0223251]
       G02B-005/30L
EC -
        G02F-001/13363G
        G02F-001/13363T
       S02F-001/13363G2
ICO -
        S02F-001/13363N
        ORIGINAL (O): 349089000; CROSS-REFERENCE (X): 349117000
PCL -
        349119000 349177000
DT -
        Basic
1 / 1
       LEGALI - ©EPO
       US5619352 A 19970408 [US5619352]
AP -
        US69003396 19960731 [1996US-0690033]
ACTE-
        20030116 US/AS-A
        ASSIGNMENT
        OWNER: CHI MEI OPTOELECTRONICS CORPORATION LEGAL & INTELL;
        EFFECTIVE DATE: 20021206
        ASSIGNMENT AND EXCLUSIVE LICENSE; ASSIGNOR: INNOVATION TECHNOLOGY
        LICENSING, LLC; REEL/FRAME: 013669/0052
        20030512 US/AS-A
        ASSIGNMENT
        OWNER: INNOVATIVE TECHNOLOGY LICENSING, LLC 1049 CAMINO D;
        EFFECTIVE DATE: 20010628
        CHANGE OF NAME; ASSIGNOR: ROCKWELL TECHNOLOGIES,
        LLC; REEL/FRAME: 014043/0798
        20030512 US/AS-A
        ASSIGNMENT
        OWNER: ROCKWELL SCIENCE CENTER, INC. 1049 CAMINO DOS RIOS;
        EFFECTIVE DATE: 19961115
        ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: ROCKWELL INTERNATIONAL
        CORPORATION: REEL/FRAME: 014051/0432
        20030512 US/AS-A
        ASSIGNMENT
        OWNER: ROCKWELL TECHNOLOGIES, LLC 1049 CAMINO DOS RIOSTHO;
        EFFECTIVE DATE: 20000330
        ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: ROCKWELL SCIENCE CENTER,
        LLC; REEL/FRAME: 014051/0437
        20030512 US/AS-A
        ASSIGNMENT
        OWNER: ROCKWELL SCIENCE CENTER LLC 1049 CAMINO DOS RIOSTH;
        EFFECTIVE DATE: 19970827
        MERGER; ASSIGNOR: ROCKWELL SCIENCE CENTER
        INC.; REEL/FRAME: 014051/0442
UP - 2005-03
13 / 17 PLUSPAT - @QUESTEL-ORBIT - image
PN - US5986734 A 19991116 [US5986734]
STG - (A) United States patent
```

TI - (A) Organic polymer O-plate compensator for improved gray scale

performance in twisted nematic liquid crystal displays (A) ROCKWELL INTERNATIONAL CORP (US) PA -PAO - Rockwell International Corporation, Costa Mesa CA [US] IN - (A) WINKER BRUCE K (US); RYANG HONG-SON (US); WARREN JR LESLIE F (US); ROSENBLATT CHARLES (US); LI ZILI (US); CHUNG YOUNG J (US) (A) G02F-001/1335 G02F-001/1337 IC -**AP** - US94753197 19970730 [1997US-0947531] US94753197 19970730 [1997US-0947531] US31353194 19940930 [1994US-0313531] US22325194 19940404 [1994US-0223251] PR -G02B-005/30L G02F-001/13363G ICO -S02F-001/13363G2 PCL - ORIGINAL (O): 349123000; CROSS-REFERENCE (X): 349117000 349124000 349127000 349130000 DT - Corresponding document 14 / 17 PLUSPAT - @QUESTEL-ORBIT - image **PN** - WO9610768 A1 19960411 [WO9610768] STG -(A1) Publ. Of int. Appl. With int. Search rep (A1) SPLAY/TWIST COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE TI -IN TWISTED NEMATIC LIQUID CRYSTAL DISPLAYS (A1) COMPENSATEUR DE CHANFREIN ET VRILLE AMELIORANT LE RENDEMENT DANS L'ECHELLE DES GRIS DES AFFICHEURS A CRISTAUX LIQUIDES NEMATIQUES TORSADES (A1) ROCKWELL INTERNATIONAL CORP (US) PAO - ROCKWELL INTERNATIONAL CORPORATION ; 2201 Seal Beach Boulevard Seal Beach, CA 90740-8250 (US) IN - (A1) KOCH GENE C; WINKER BRUCE K; GUNNING WILLIAM J III **IC** - (A1) G02B-005/30 G02F-001/1335 LA - ENGLISH (ENG) **AP** - WOUS9512471 19950928 [1995WO-US12471] PR - US31347694 19940930 [1994US-0313476] **EC** - G02B-005/30L G02F-001/13363G G02F-001/13363T - CA; CN; JP; KR; MX; European Patent (AT; BE; CH; DE; DK; ES; FR; DS GB; GR; IE; IT; LU; MC; NL; PT; SE) DT -Basic 1 / 1 LEGALI - ©EPO WO9610768 A1 19960411 [WO9610768] WOUS9512471 19950928 [1995WO-US12471] 19960411 WO/AK [+] DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT CA CN JP KR MX 19960411 WO/AL [+] DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE 19960717 WO/121 EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN

19961010 WO/DFPE

THIS APPLICATION

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

19980121 WO/122 [-]

EP: PCT APP. NOT ENT. EUROP. PHASE

**UP** - 2003-22

15 / 17 PLUSPAT - @QUESTEL-ORBIT - image

PN - W09610769 A1 19960411 [W09610769]

STG - (A1) Publ. Of int. Appl. With int. Search rep

TI - (A1) MONOLITHIC OPTICAL COMPENSATION DEVICE FOR IMPROVED VIEWING ANGLE IN LIQUID CRYSTAL DISPLAYS

OTI - (A1) DISPOSITIF MONOLITHIQUE DE COMPENSATION OPTIQUE PERMETTANT D'AMELIORER L'ANGLE D'OBSERVATION DANS LES AFFICHEURS A CRISTAUX LIQUIDES

PA - (A1) ROCKWELL INTERNATIONAL CORP (US)

PAO - ROCKWELL INTERNATIONAL CORPORATION; 2201 Seal Beach Boulevard Seal Beach, CA 90740-8250 (US)

IN - (A1) WINKER BRUCE K

IC - (A1) G02B-005/30 G02F-001/1335

LA - ENGLISH (ENG)

**AP** - WOUS9512475 19950928 [1995WO-US12475]

**PR** - US31353294 19940930 [1994US-0313532]

**EC** - G02B-005/30R

G02F-001/13363G

DS - CA; CN; JP; KR; MX; European Patent (AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE)

DT - Basic

1 / 1 LEGALI - ©EPO

PN - W09610769 A1 19960411 [W09610769]

AP - WOUS9512475 19950928 [1995WO-US12475]

**ACTE**- 19960411 WO/AK [+]

DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT

CA CN JP KR MX

19960411 WO/AL [+]

DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT

AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

19960717 WO/121

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION

19961017 WO/DFPE

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

19980121 WO/122 [-]

EP: PCT APP. NOT ENT. EUROP. PHASE

**UP** - 2003-22

16 / 17 PLUSPAT - @QUESTEL-ORBIT - image

PN - W09610770 A1 19960411 [W09610770]

STG - (A1) Publ. Of int. Appl. With int. Search rep

- TI (A1) ORGANIC POLYMER O-PLATE COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE IN TWISTED NEMATIC LIQUID CRYSTAL DISPLAYS
- OTI (A1) COMPENSATEUR A PLAQUE O EN POLYMERE ORGANIQUE DESTINE A
  AMELIORER LA PERFORMANCE DE L'ECHELLE DE GRIS DANS DES AFFICHEURS
  A CRISTAUX LIQUIDES NEMATIQUES EN HELICE
- PA (A1) ROCKWELL INTERNATIONAL CORP (US); WINKER BRUCE K (US);
  RYANG HONG SON (US); WARREN LESLIE F JR (US); ROSENBLATT CHARLES
  (US); LI ZILI (US); CHUNG YOUNG J (US)
- PAO ROCKWELL INTERNATIONAL CORPORATION; M/S 175-100, 400 Collins Road, N.E. Cedar Rapids, IA 52498 (US) (Updated 1997-04) WINKER, Bruce, K.; 4438 Sugar Maple Court Moonpark, CA 93021 (US) (Updated 1997-04)

RYANG, Hong-Son; 117 Encino Avenue Camarillo, CA 93010 (US) (Updated 1997-04)

WARREN, Leslie, F., Jr.; 1902 La Ramada Drive Camarillo, CA 93012 (US) (Updated 1997-04)

ROSENBLATT, Charles ; 24104 Woodway Road Beachwood, OH 44122 (US) (Updated 1997-04)

LI, Zili ; Apartment 232 142 W. Avenida de los Arboles Thousand Oaks, CA 91360 (US) (Updated 1997-04)

CHUNG, Young, J.; 3416 Stoneridge Court Calabasas, CA 91302 (US) (only US) (Updated 1997-04)

- IN (A1) WINKER BRUCE K (US); RYANG HONG-SON (US); WARREN LESLIE F
   JR (US); ROSENBLATT CHARLES (US); LI ZILI (US); CHUNG YOUNG J
   (US)
- IC (A1) G02B-005/30 G02F-001/1335

LA - ENGLISH (ENG)

**AP** - WOUS9512497 19950928 [1995WO-US12497]

**PR** - US31353194 19940930 [1994US-0313531]

**EC** - G02B-005/30L

G02F-001/13363G

DS - CA; CN; JP; KR; MX; European Patent (AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE)

DT - Basic

### 1 / 1 LEGALI - ©EPO

PN - W09610770 A1 19960411 [W09610770]

AP - WOUS9512497 19950928 [1995WO-US12497]

ACTE- 19960411 WO/AK [+]

DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT

CA CN JP KR MX US

19960411 WO/AL [+]

DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT

AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

19960717 WO/121

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION

19961010 WO/DFPE

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

19970116 WO/CR1

CORRECTION OF ENTRY IN SECTION I

PAT.BUL.16/96 UNDER INID (81) "DESIGNATED STATES", DELETE "US"

19970116 WO/CFP

CORRECTED VERSION OF A PAMPHLET FRONT PAGE

19980121 WO/122 [-]

EP: PCT APP. NOT ENT. EUROP. PHASE

19980530 WO/NENP

NON-ENTRY INTO THE NATIONAL PHASE IN:

<CA>

**UP** - 2003-22

17 / 17 PLUSPAT - @QUESTEL-ORBIT - image

PN - W09610773 A1 19960411 [W09610773]

STG - (A1) Publ. Of int. Appl. With int. Search rep

TI - (A1) INORGANIC THIN FILM COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE IN TWISTED NEMATIC LIQUID CRYSTAL DISPLAYS

OTI - (A1) DISPOSÍTIF DE COMPENSATION COMPRENANT UN FILM MINERAL MINCE POUR AMELIORER L'ECHELLE DES GRIS DANS LES AFFICHAGES A CRISTAUX LIOUIDES A STRUCTURE NEMATIQUE TORSADEE

PA - (A1) ROCKWELL INTERNATIONAL CORP (US)

PAO - ROCKWELL INTERNATIONAL CORPORATION ; 2201 Seal Beach Boulevard Seal Beach, CA 90740-8250 (US)

IN - (A1) GUNNING WILLIAM J III; WINKER BRUCE K; TABER DONALD B; KORBIN PAUL H; BEEDY JAMES C; ELBEN JOHN P JR

IC - (A1) G02B-005/30 G02F-001/1335

LA - ENGLISH (ENG)

**AP** - WOUS9512588 19950928 [1995WO-US12588]

PR - US31351094 19940930 [1994US-0313510]

**EC** - G02B-005/30R

G02F-001/13363G

DS - CA; CN; JP; KR; MX; European Patent (AT; BE; CH; DE; DK; ES; FR;

GB; GR; IE; IT; LU; MC; NL; PT; SE)

DT - Basic

1 / 1 LEGALI - ©EPO

PN - W09610773 A1 19960411 [W09610773]

**AP** - WOUS9512588 19950928 [1995WO-US12588]

ACTE- 19960411 WO/AK [+]

DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH

REPORT

CA CN JP KR MX

19960411 WO/AL [+]

DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED

APPLICATION WITH SEARCH REPORT

AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

19960717 WO/121

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION

19960906 WO/DFPE

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

19980114 WO/122 [-]

EP: PCT APP. NOT ENT. EUROP. PHASE

**UP** - 2003-22

STIC EIC 2800 Darcy Bates 272-2540

Switch Client   Preferences   Feedback   Sign Off   ☐ Help  My Lexis My Search Research Tasks Search Advisor Get a Document Shepard's®  ECLIPSE   History   ₾  Gources Guided Search Forms   Command Searching    Legal > Area of Law - By Topic > Patent Law > Multi-Source Groups > Patent Cases from Federal Courts  and Administrative Materials □					
<sup>4</sup> Enter Search Terms		Search	Connectors		
Terms and Connectors ( Natural Language 5612801 or 5,612,801	Suggest Terms Search	between s connector	ectors to show relationships earch terms. (Hover over a for description. Click a to add to search.)		
		and or w/N	Definition and or within N words		
Restrict by Segment:		not w/N pre /N	not within N words precedes by N words		
Select a segment, enter search terms for the segment, then consider the segment Add 1	w/p not w/p	in same paragraph not in same paragraph			
Note: Segment availability differs between sources. Segments may a consistently across sources.  Restrict by Date:	not be applied	w/seg not w/seg w/s not w/s	in same segment not in same segment in same sentence not in same sentence		
No Date Restrictions    O From    To	Formats	and not	and not		

My Lexis ™ | Search | Research Tasks | Search Advisor | Get a Document | Shepard's ® Eclipse ™ | History | Delivery Manager | Switch Client | Preferences | Feedback | Sign Off | Help About LexisNexis | Terms and Conditions

## **No Documents Found!**

No documents were found for your search (**5612801 or 5,612,801**). Click the "Edit Search" button below to try again. You may want to try one or more of the following:

- · Check for spelling errors.
- · Remove some search terms.
- Use a less restrictive date range.
- Use more common search terms. "Suggested Words and Concepts" are displayed on the search form when you click on Edit Search.

Edit Search

About LexisNexis | Terms and Conditions

CarisNexis Total Research System	Switch Client :	Preferences   Feedback   Sign Off   ? Help			
My Lexis™ Search Research Tasks Search Advisor Get a Document Shepard's® ECLIPSE History   Sources Guided Search Forms Command Searching					
Legal > Area of Law - By Topic > Patent Law > Legal New Combined   ☐	<u>s</u> > Patent, Trademar	k & Copyright Periodicals,			
<sup>a</sup> Enter Search Terms	7	Search Connectors			
© Terms and Connectors ( Natural Language 5612801 or 5, 612, 801	Suggest Terms Search	Use connectors to show relationships between search terms. (Hover over a connector for description. Click a connector to add to search.)			

## **Restrict by Segment:**

Select a segment, enter search terms for the segment, then click Add.

Select a Segment 🖫 Add 🕥

Note: Segment availability differs between sources. Segments may not be applied consistently across sources.

## **Restrict by Date:**

◉	No Date Restrictions 😴	0	From	ТоГ		Date Formats
---	------------------------	---	------	-----	--	--------------

and	and
<u>or</u>	or
w/N	within N words
not w/N	not within N words
pre /N	precedes by N words
<u>w/p</u>	in same paragraph
not w/p	not in same paragraph
<u>w/seg</u>	in same segment
not w/seg	not in same segment
<u>w/s</u>	in same sentence
not w/s	not in same sentence
and not	and not

View Search Command

<u>My Lexis ™ | Search | Research Tasks | Search Advisor | Get a Document | Shepard's ®</u>

<u>Eclipse ™ | History | Delivery Manager | Switch Client | Preferences | Feedback | Sign Off | Help About LexisNexis | Terms and Conditions</u>

 $\underline{\text{Copyright } @} \ \ \text{2005 LexisNexis, a division of Reed Elsevier Inc. All rights reserved}.$ 

## **No Documents Found!**

No documents were found for your search (5612801 or 5,612,801). Click the "Edit Search" button below to try again. You may want to try one or more of the following:

- · Check for spelling errors.
- Remove some search terms.
- · Use a less restrictive date range.
- Use more common search terms. "Suggested Words and Concepts" are displayed on the search form when you click on Edit Search.

Edit Search

About LexisNexis | Terms and Conditions

LexisNexis Total Research System Switch	Switch Client   Preferences   Feedback   Sign Off   [7] Help		
My Lexis™ Search Research Tasks Search Advisor Get a Document Society Search Guided Search Forms Command Searching	Shepard's <sup>®</sup> ECLIPSE ! History ! ஹீ		
News & Business > News > News, All (English, Full Text)	ূি <sup>#</sup> Search Connectors		
Terms and Connectors Natural Language  5612801 or 5,612,801  Suggest Terms for My Search	Use connectors to show relationships between search terms. (Hover over a connector for description. Click a connector to add to search.)		
	Syntax Definition  and and  or or  w/N within N words		
Restrict by Segment:  Select a segment, enter search terms for the segment, then click Add.  Select a Segment	not w/N not within N words pre /N precedes by N words w/p in same paragraph		
Note: Segment availability differs between sources. Segments may not be applied consistently across sources.	not w/p not in same paragraph w/seg in same segment not w/seg not in same segment w/s in same sentence		
Restrict by Date:  O No Date Restrictions O From To Date Formats	not w/s not in same sentence and not and not View Search Command		

My Lexis ™ | Search | Research Tasks | Search Advisor | Get a Document | Shepard's ® Eclipse ™ | History | Delivery Manager | Switch Client | Preferences | Feedback | Sign Off | Help About LexisNexis | Terms and Conditions

## No Documents Found!

No documents were found for your search (**5612801 or 5,612,801**). Click the "Edit Search" button below to try again. You may want to try one or more of the following:

- Check for spelling errors.
- · Remove some search terms.
- Use a less restrictive date range.
- Use more common search terms. "Suggested Words and Concepts" are displayed on the search form when you click on Edit Search.

Edit Search

About LexisNexis | Terms and Conditions